

*B1*  
*Amid*  
an electric power line comprising a plurality of sequentially connected segments wired in an interior of a vehicle from a battery, for supplying power to various kinds of loads of said vehicle;

a plurality of short sensors for detecting a short circuit in at least one of said plurality of segments of said electric power lines;

*C1*  
a control circuit for specifying a short circuited segment of said electric power line in accordance with a short detection condition of said plurality of short sensors; and

means responsive to signals from said control circuit for removing the short circuited segment from said electric power line for supplying power to said loads.

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*Sub*  
*Amid*  
*D1*  
3. (Twice Amended) A power supply apparatus for a vehicle, comprising:

a battery;

a load drive electric power line wired in an interior of a vehicle from the battery through a first fuse, for driving a vehicle load;

a control circuit drive electric power line wired in said interior of said vehicle from a battery through a second fuse, for driving a control apparatus;

Sub D1  
B2  
and  
at least one control apparatus including a control circuit which is supplied with power from said control circuit drive electric power line ; and

a load drive circuit provided between said load drive electric power line and said load, for controlling a supply of power to said load in response to a signal from said control circuit.

7. (Twice Amended) A power supply apparatus for a vehicle, comprising:

a battery;

a first power supply circuit wired in an interior of a vehicle through a first fuse from the battery, for supplying power to a plurality of loads of said vehicle;

Sub D1  
B3  
and  
a second power supply circuit wired in said interior of said vehicle through a second fuse from the battery, for supplying power to a control circuit of a control apparatus for controlling at least one load of said vehicle; and

a protection circuit for detecting a short circuit of said first power supply circuit and for implementing a protection control of said first power supply circuit through said control circuit.

Sub  
DI  
3  
Am'd

8. (Twice Amended) A power supply apparatus for a vehicle, comprising:

a battery;

a first power supply system wired in an interior of a vehicle through a first circuit including a first fuse from the battery, for supplying power to a running control load of said vehicle;

a second power supply system wired in said interior of said vehicle through a second circuit including a second fuse from said battery, for supplying power to an equipment system load of said vehicle; and

a third power supply system wired in said interior of said vehicle through a third circuit including a third fuse from said battery, for supplying power to a control circuit for controlling said equipment system load.

(Applicant's Remarks are set forth hereinbelow, starting on the following page.)